TAG-IN-A-BAG™

Single Door RF/ID Proximity Access Control Unit

Visonic Ltd

User's Guide

1. Introduction

Thank you for choosing the TIAB (Tag-in-a-Bag™) programmable proximity access control unit.

The TIAB is designed to limit access to restricted areas while permitting authorized users to enter.

The unit uses state-of-the-art proximity (non-contact) technology.

The TIAB can be programmed by the installer to offer one of two security levels for opening the door:

1. Valid tag only.
2. Valid tag <u>and</u> user PIN (Personal Identification Number) code.

2. Using the TIAB

Present a valid tag 50 - 100 mm (2 - 4 in.) from the TIAB (or from the optional external reader, if installed).

Verify that the green LED turns on and that the door unlocks.

If your TIAB is programmed to operate by tag and user's PIN code, present the tag and then enter your user code.

The normal functions of the LEDs are summarized in the following table.

TABLE 1 - LED functions in normal operation

LED	Function
GREEN ✓	Indicates that a valid tag was presented and the output relay was activated.
RED ⊗	Indicates that an invalid tag was presented or an invalid PIN was entered.
YELLOW ⏻	Remains lit to indicate that power is on. In security level 2, blinks after the tag is accepted, to prompt the user for PIN.

Time out

A delay of more than 5 seconds between presenting a tag and starting to enter the user PIN code, or between any two digits, cancels the operation.

If you enter three consecutive wrong codes or present an invalid tag for more than 5 seconds, the TIAB control unit is disabled for 30 seconds and the buzzer beeps at a rapid rate.
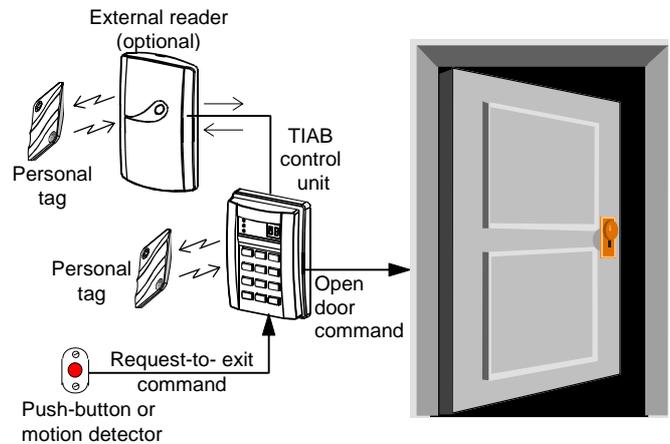

External reader (optional)

Personal tag

Personal tag

TIAB control unit

Open door command

Request-to- exit command

Push-button or motion detector

Figure 1 - *TIAB Typical Configuration*

Panic Output

If the Panic output was connected, by the installer, to an alarm system or to any other external device, pressing "✶" and "#" simultaneously causes the panic output to be activated for 5 seconds. In this case, the buzzer does not beep.

NOTE: *It is recommended that the user ask the installer, if any advanced features were incorporated into the system, in order to get proper explanations.*

3. Programming by the User

The programming functions include adding, deleting and reviewing user tags. For any programming, you need the Master Tag and its 4-digit PIN code.

Entering the Programming Mode

Hold the master tag near the keyboard for at least 10 seconds. After receiving an acknowledge signal from the buzzer, key in your master tag PIN code (4 digits). "Pr" (Programming) will blink in the display.

Exiting the Programming Mode

Press the ✶ button to exit any of the programming mode options into the main programming mode. Press the ✶ button again to quit the main programming mode and revert to normal operation.

Table 2 includes a summary of the user's programming functions and the following paragraphs describe the procedures in detail.

TABLE 2 - SUMMARY OF PROGRAMMING FUNCTIONS

FUNCTION	ACTION	DISPLAY	INDICATOR
ADD (Add new tags See Section 3.1)	Enter "Pr" mode and press "**1**"	Available address blinks	Green
	Present a tag	"Cd"	
	Enter PIN code (4-digit)	Last 2 digits of PIN	
	Press "#"	Available address blinks	
	Exit "Pr" mode by pressing "✶✶"		
SHOW (Review user tags See Section 3.2)	Enter "Pr" mode and press "2"	Shows address	Red
	Press "#"	First 2 digits of PIN code	
	Press "#"	Last 2 digits of PIN code	
	Press "#"	Shows next address	
	Exit "Pr" mode by pressing "✶✶"		
DELETE (Delete presented tags See Section 3.3)	Enter "Pr" mode and press "3"	Blank	Yellow
	Present the tag	Tag address blinks	
	Press "#"	Tag address steady	
	Press "#"	Blank	
	Exit "Pr" mode by pressing "✶✶"		
DELETE (Delete lost tags See Section 3.3)	Enter "Pr" mode and press "3"	Blank	Yellow
	Enter 3-digit tag address and "#"	Tag address blinks	
	Press "#"	Tag address steady	
	Press "#"	Blank	
	Exit "Pr" mode by pressing "✶✶"		

Note: Arrows indicate that the process can be repeated, as needed.

3.1 Adding User Tags

Note: It is recommended to maintain a list of valid tags and user names for future reference. A user list form is attached to this document, for your convenience.

Security level 1: "Pr" mode ☞ 1 ▨ ☞ #

Security level 2: "Pr" mode ☞ 1 ▨ ☞ PIN code #

A. In programming mode ("Pr" is displayed), press "1" to select the ADD function (the green LED will blink). The unit will display two flashing digits (the memory address available for the tag) and the buzzer will beep twice.

B. Present a user tag near or on the keypad. Once the tag is read by the unit, the two flashing digits become steady and two short beeps sound to indicate tag reading.

C. "Cd" is displayed, to prompt you to enter the desired user PIN code within 5 seconds.
If the TIAB security level is 1 (tag only), press "#" (or wait until the tag address advances automatically).
If the TIAB security level is 2 (tag and PIN), enter the user 4-digit PIN code and press "#" to conclude the tag adding process.
For security reasons, 4 identical digits, like "1111" **are not** accepted as valid PIN code.

D. The tag adding process is completed and the TIAB reverts to the ADD mode, ready for the next tag. You can program up to 250 tags, by repeating steps B and C above.

3.2 Reviewing User Tags

"Pr" mode ☞ 2

The holder of the master tag may review all PIN codes of the valid tags.

In programming mode ("Pr" is displayed), press "2" to select the SHOW function. The red LED blinks and all the 250 memory addresses are scanned, one by one. Each address is displayed for 3 seconds and then the next address appears, followed by 2 buzzer's beeps. Each empty address (no tag programmed) blinks and each occupied address (tag programmed) is displayed steadily.

Please Note:

1. Pressing "#" while the address is displayed steadily shows the first 2 digits of the PIN code designated for that address.
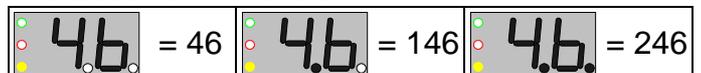
   Pressing "#" again displays the last 2 digits of the PIN code. Additional pressing "#" expedites advance to next address.

2. You may enter a 3-digit number, to go directly to a specific address (i.e., to see address 10, enter 010).

3. Since the TIAB display can show 2 digits only, the two decimal point LEDs assist in the numeric display of 3 digits, when needed.

   When one decimal point LED is lit, the number is between 100 to 199.

   When two decimal point LEDs are lit, the number is between 200 to 250. The following example clarifies the decimal LED function.

 = 46   = 146   = 246

3.3 Deleting an Existing Tag

"Pr" mode ☞ [3] [🗝] [#] [#]

or

"Pr" mode ☞ [3] [TAG Address] [#] [#] [#]

Deleting a tag is possible when the tag to be deleted is available or not available (lost or stolen).

A. In programming mode ("Pr" is displayed), press "3" to select the DELETE function. The yellow LED will blink and the display will be blank.

B. Present to the keypad the tag you want to delete. Alternately, if the tag is lost or stolen, enter its 3-digit address instead and press "#". The address will flash in the display.

C. Press "#" again, to approve the tag's deletion. The display will stop flashing. Press "#" once more, to confirm. The TIAB sounds 3 short beeps, to indicate that the tag is deleted. The display blanks out, ready to delete another tag.

Notes:

1. *In the DELETE mode, the TIAB control unit searches automatically through addresses 001 to 250 (does not search address 000).*
2. *Tag deletion deletes tag information and the 4-digit PIN code.*
3. *Deletion of address 000 causes the TIAB control unit to return to the ADD mode. A new master tag and PIN code must be entered for further use.*
4. *Deleting ALL codes except the master code is accomplished by entering address 999.*

5. *If you made a mistake and do not want to delete, press "✶", before pressing "#", to cancel the operation and return the TIAB control unit to DELETE mode. Pressing "✶" a second time causes the TIAB control unit to return to normal operation mode.*

4. Testing the TIAB

☞ [4] + [6]

The test mode is used for checking the TIAB keypad, display elements and the internal buzzer. To enter TEST mode, press and hold buttons 4 and 6 simultaneously for 5 seconds.

Upon entering this mode, the display shows "tS". Press 0 - 9 successively and then "✶" and "#".

When pressing each button, the buzzer sounds and the display shows the associated number (✶=11, #=12). Once the # button is pressed, the display shows "88", both decimal points and all LED's light up (to verify that all segments are operational) and the buzzer sounds for 2 seconds.

The test mode will time out 10 seconds after the last button is pressed. Upon exit from test mode, the TIAB control unit reverts to the previous mode (normal or "Pr").

Compliance with standards: Complies with Part 15 of the FCC Rules and RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Appendix - Users List

Tag No.	User name	PIN code	Tag address	Tag No.	User name	PIN code	Tag address
1			001	51			051
2			002	52			052
3			003	53			053
4			004	54			054
5			005	55			055
6			006	56			056
7			007	57			057
8			008	58			058
9			009	59			059
10			010	60			060
11			011	61			061
12			012	62			062
13			013	63			063
14			014	64			064
15			015	65			065
16			016	66			066
17			017	67			067
18			018	68			068
19			019	69			069
20			020	70			070
21			021	71			071
22			022	72			072
23			023	73			073
24			024	74			074
25			025	75			075
26			026	76			076
27			027	77			077
28			028	78			078
29			029	79			079
30			030	80			080
31			031	81			081
32			032	82			082
33			033	83			083
34			034	84			084
35			035	85			085
36			036	86			086
37			037	87			087
38			038	88			088
39			039	89			089
40			040	90			090
41			041	91			091
42			042	92			092
43			043	93			093
44			044	94			094
45			045	95			095
46			046	96			096
47			047	97			097
48			048	98			098
49			049	99			099
50			050	100			100

Note
This is a sample user list for your convenience. Please copy the list as necessary.